



ADULT Medication Monograph



GLYCERYL TRINITRATE

This document should be read in conjunction with this [DISCLAIMER](#)

Class	Drug class
Presentation	Ampoule: 50mg/10mL Sublingual Tablet: 600microg Sublingual Spray: 400microg/metered dose Transdermal Patch: 10mg/24hr, 5mg/24hr Ointment (Rectogesic®): 0.2% (30g)
Storage	Store at room temperature, below 25°C
Dose	<p><u>Uterine Relaxant (Caesarean Birth)</u></p> <p>Sublingual Spray: 1 to 2 sprays (400 - 800microg) administered as spray droplets under the tongue (do not inhale).</p> <p>IV Bolus: Administer 50-100microg (1-2mL of the below prepared solution) intravenously.</p> <p><u>Tocolytic (Second line)</u></p> <p>Transdermal Patch: Apply 5 - 10mg patch to abdominal skin, and repeat the dose in 1 hour if the contractions persist (Maximum dose 20mg in 24 hours)</p> <p><u>Uterine Relaxant (Postpartum Haemorrhage - Uterine Inversion)</u></p> <p>Sublingual Tablet: 600microg</p> <p><u>Peri-Operative Blood Pressure Control</u> Refer to FSH GTN Infusion Specialised Drug Administration Guideline</p>

	<p><u>Anal Fissures</u></p> <p>Refer to Adult Medication Protocol: Anorectal Products</p>
Administration	<p><u>IV Bolus</u></p> <p><i>NB: The standard IV preparation of GTN requires careful dilution in preparation for administration</i></p> <p><i>Dilution:</i></p> <p>Add 1 mL (5mg) GTN into a 100ml bag sodium chloride 0.9% = 50microg/mL</p> <p>Withdraw 20mL (label syringe clearly) and discard the premixed GTN bag</p> <p><i>Administration:</i> Give 1-2 mL (50-100microg) of the diluted solution and repeat after 15-30 seconds if required.</p> <p><u>Sublingual Tablet</u></p> <p>Place tablet under tongue and allow to dissolve, do not swallow</p> <p><u>Sublingual Spray</u></p> <p>Prime spray before using it for the first time by pressing nozzle 5 times into air or if it hasn't been used for 7 days. Spray under the tongue. Do not inhale spray</p> <p><u>Transdermal Patch</u></p> <p>Apply to clean, dry skin on chest or upper arm</p>
Pregnancy	<p>1st Trimester: Considered safe to use</p> <p>2nd Trimester: Considered safe to use</p> <p>3rd Trimester: Considered safe to use</p>
Breastfeeding	<p>Considered safe to use (Ointment)</p> <p>Monitoring required (IV, Transdermal, Sublingual) – use lowest effective dose and monitor infant for flushing and discomfort after breastfeeding.</p>
Monitoring	<p>IV: Monitor blood pressure and have vasopressor to hand. Observe for uterine atony and manage accordingly</p> <p>Do not stop GTN IV infusion abruptly because of the potential for rebound symptoms</p> <p>Sublingual Tablets: Expire 3 months after bottle first opened</p>
Clinical Guidelines and Policies	<p>NMHS Policies:</p> <p>KEMH Clinical Guidelines:</p>

	<p>O&G: WNHS Clinical Practice Guideline: Preterm Labour</p> <p>WNHS Clinical Practice Guideline: Pharmacological Management of Uterine Tone and Caesarean Birth</p> <p>WNHS Clinical Practice Guideline: Uterine Inversion</p> <p>WNHS Clinical Practice Guideline: Peripherally Inserted Central Catheter (PICC)</p> <p>Pain and Anaesthesia: Adult Resuscitation Drug Protocols: Glyceryl trinitrate sublingual spray</p> <p>KEMH Pharmaceutical & Medicines Management Guidelines:</p> <p>KEMH Pharmaceutical & Medicines Management Guideline: Medication Administration</p>
References	<p>Australian Medicines Handbook. Glyceryl Trinitrate. In: Australian Medicines Handbook [Internet]. Adelaide (South Australia): Australian Medicines Handbook; 2017 [cited 2018 Apr 02]. Available from: https://amhonline.amh.net.au</p> <p>The Royal Women's Hospital. Glyceryl Trinitrate. In: Pregnancy and Breastfeeding Medicines Guide [Internet]. Parkville (Victoria): The Royal Women's Hospital; 2016 [cited 2018 Apr 02]. Available from: https://thewomenspbmg.org.au/</p>

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